

Docket No. RSW920030303US1

**CLAIMS:**

What is claimed is:

- 1    1.    A method in a data processing system to identify a  
2    Web service in a registry using a registry lookup naming  
3    and directory provider, the method comprising steps of:  
4        detecting a request from a service requester to  
5    identify the Web service in the registry;  
6        responsive to detecting the request, determining if  
7    a first element is present in a registry file;  
8        responsive to determining the first element is  
9    present in the registry file, locating a second element  
10   in the registry file based on the first element in the  
11   registry file; and  
12        locating an endpoint location of the Web service  
13   based on the second element in the registry file.
- 1    2.    The method of claim 1, further comprising:  
2        in response to determining the first element is  
3    absent from the registry file, deferring identification  
4    of the Web service to a standard naming and directory  
5    provider, wherein deferring identification of the Web  
6    service includes passing the request to the standard  
7    naming and directory provider.
- 1    3.    The method of claim 2, wherein identification of the  
2    Web service by the standard naming and directory provider  
3    further comprising:  
4        locating an additional configuration file;

Docket No. RSW920030303US1

5       determining if a service name element is present in  
6       the additional configuration file; and  
7       responsive to determining the service name element  
8       exists is present in the additional configuration file,  
9       locating an endpoint location of the Web service based on  
10      an address element of the additional configuration file.

1    4.   The method of claim 3, further comprising:  
2       retrieving an instance of the Web service based on  
3       the endpoint location; and  
4       returning the instance of the Web service to the  
5       service requester.

1    5.   The method of claim 3, wherein the additional  
2       configuration file includes a web service directory  
3       language file.

1    6.   The method of claim 1, wherein the request includes  
2       a Java naming and directory interface request.

1    7.   The method of claim 1, wherein the request includes  
2       a parameter representing a name of the Web service.

1    8.   The method of claim 7, wherein determining if a  
2       first element is present in the registry file includes  
3       determining if the name of the Web service maps to the  
4       first element.

1    9.   The method of claim 1, wherein the first element  
2       includes a service-ref-name element.

Docket No. RSW920030303US1

1 10. The method of claim 1, wherein the registry file  
2 includes one of a UDDI registry file, an electronic  
3 business using extensible markup language registry file,  
4 a, a web service inspection language registry file, and a  
5 custom registry file implemented using a database.

1 11. The method of claim 1, wherein the endpoint location  
2 of the Web service includes a universal resource locator.

1 12. The method of claim 1, wherein instance of the Web  
2 service includes a stub of implementation of the Web  
3 service.

1 13. The method of claim 3, wherein locating an  
2 additional configuration file includes locating a wsdl-  
3 file element in a webservicessclient.xml file.

1 14. The method of claim 3, wherein determining if a  
2 service name element is present in the additional  
3 configuration file includes determining if a name of the  
4 Web service from the request maps to the service name  
5 element.

1 15. The method of claim 3, wherein identification of the  
2 Web service by the standard naming and directory service,  
3 further comprising:

4 responsive to determining the service name element  
5 is absent from the additional configuration file,  
6 returning an error to the service requester.

Docket No. RSW920030303US1

1 16. The method of claim 1, wherein locating an endpoint  
2 location of the Web service based on the second element  
3 in the registry file includes determining if a lookup  
4 policy element exists in the registry file, wherein the  
5 lookup policy element includes a selection policy  
6 element.

1 17. The method of claim 16, wherein the registry lookup  
2 naming and directory provider selects a single endpoint  
3 location from a plurality of endpoint locations based on  
4 a selection policy in the selection policy element.

1 18. A data processing system for identifying a Web  
2 Service in a registry using a registry lookup naming and  
3 directory provider, the data processing system  
4 comprising:  
5       detecting means for detecting a request from a  
6 service requester to identify the Web service in the  
7 registry;  
8       responsive to detecting the request, determining  
9 means for determining if a first element is present in a  
10 registry file;  
11       responsive to determining the first element is  
12 present in the registry file, locating means for locating  
13 a second element in the registry file based on the first  
14 element in the registry file; and  
15       locating means for locating an endpoint location of  
16 the Web service based on the second element in the  
17 registry file.

Docket No. RSW920030303US1

1 19. The data processing system of claim 18, further  
2 comprising:  
3 in response to determining the first element is  
4 absent from the registry file, deferring means for  
5 deferring identification of the Web service to a standard  
6 naming and directory provider, wherein deferring  
7 identification of the Web service includes passing means  
8 for passing the request to the standard naming and  
9 directory provider.

1 20. The data processing system of claim 19, wherein  
2 identification of the Web service by the standard naming  
3 and directory provider further comprising:  
4 locating means for locating an additional  
5 configuration file;  
6 determining means for determining if a service name  
7 element is present in the additional configuration file;  
8 and  
9 responsive to determining the service name element  
10 exists is present in the additional configuration file,  
11 locating means for locating an endpoint location of the  
12 Web service based on an address element of the additional  
13 configuration file.

1 21. The data processing system of claim 20, further  
2 comprising:  
3 retrieving means for retrieving an instance of the  
4 Web service based on the endpoint location; and  
5 returning means for returning the instance of the  
6 Web service to the service requester.

Docket No. RSW920030303US1

1 22. A computer program product in a computer  
2 readable medium for identifying a Web service in a  
3 registry using a registry lookup naming and directory  
4 provider, the data processing system comprising:  
5 first instructions for detecting a request from a  
6 service requester to identify the Web service in the  
7 registry;  
8 responsive to detecting the request, second  
9 instructions for determining if a first element is  
10 present in a registry file;  
11 responsive to determining the first element is  
12 present in the registry file, third instructions for  
13 locating a second element in the registry file based on  
14 the first element in the registry file; and  
15 fourth instructions for locating an endpoint  
16 location of the Web service based on the second element  
17 in the registry file.

1 23. The computer program product of claim 22, further  
2 comprising:  
3 in response to determining the first element is  
4 absent from the registry file, fifth instructions for  
5 deferring identification of the Web service to a standard  
6 naming and directory provider, wherein deferring  
7 identification of the Web service includes sixth  
8 instructions for passing the request to the standard  
9 naming and directory provider.

Docket No. RSW920030303US1

1 24. The computer program product of claim 23, wherein  
2 identification of the Web service by the standard naming  
3 and directory provider further comprising:  
4 seventh instructions for locating an additional  
5 configuration file;  
6 eighth instructions for determining if a service  
7 name element is present in the additional configuration  
8 file; and  
9 responsive to determining the service name element  
10 exists is present in the additional configuration file,  
11 ninth instructions for locating an endpoint location of  
12 the Web service based on an address element of the  
13 additional configuration file.

1 25. The computer program product of claim 24, further  
2 comprising:  
3 tenth instructions for retrieving an instance of the  
4 Web service based on the endpoint location; and  
5 eleventh for returning the instance of the Web  
6 service to the service requester.